

PRODUCTION OF 1-HEXENE

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Abstract of JP10007595

PROBLEM TO BE SOLVED: To produce 1-hexene without separating the by-product from the system or causing the clogging of the apparatus by trimerizing ethylene in the presence of a chromium-based catalyst, deactivating the catalyst, introducing water into the treating system and stirring the mixture to effect the deashing treatment.

SOLUTION: Ethylene is trimerized in the presence of a chromium-based catalyst composed of a chromium compound and an alkyl metal compound and the chromium-based catalyst is deactivated after completing the trimerization reaction. Water is introduced in an amount of 20-200vol.% based on the liquid reaction product into the treating system while keeping the liquid reaction product at 100-180 deg.C and the system is stirred with a stirring power of $\geq 1\text{KW/m}^3$ to effect the deashing treatment by the removal of the metallic component originated from the chromium-based catalyst from the liquid reaction product and obtain 1-hexene useful as a comonomer of a linear low-density polyethylene or a raw material for plasticizers.

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